



1/8

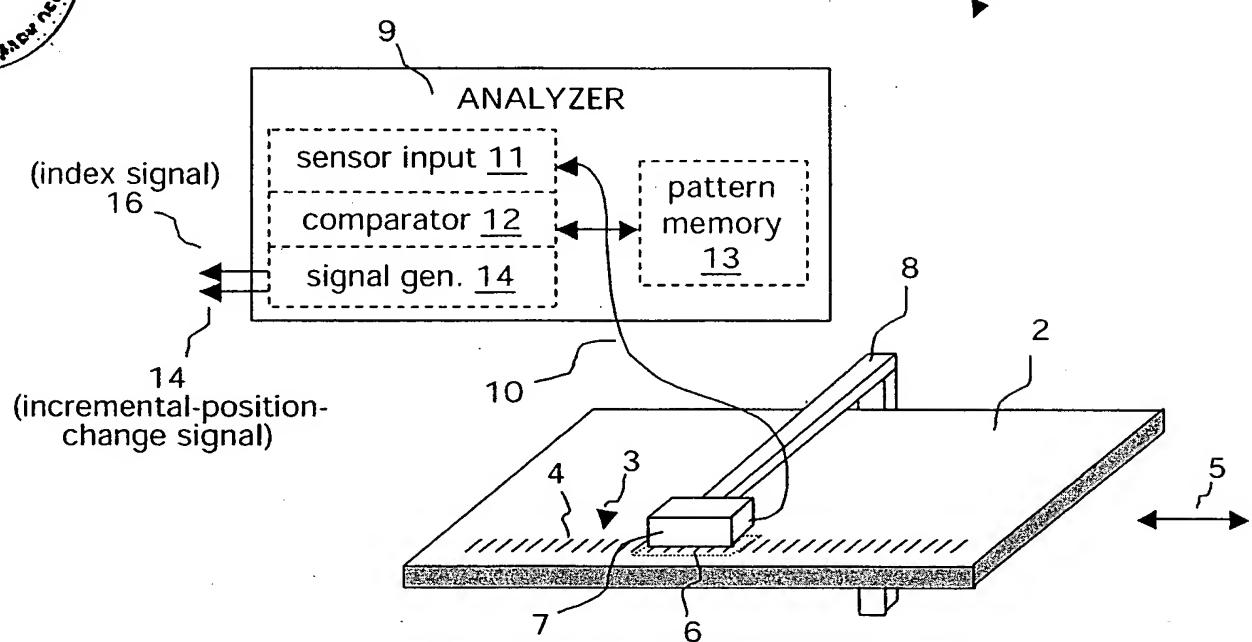


Fig. 1

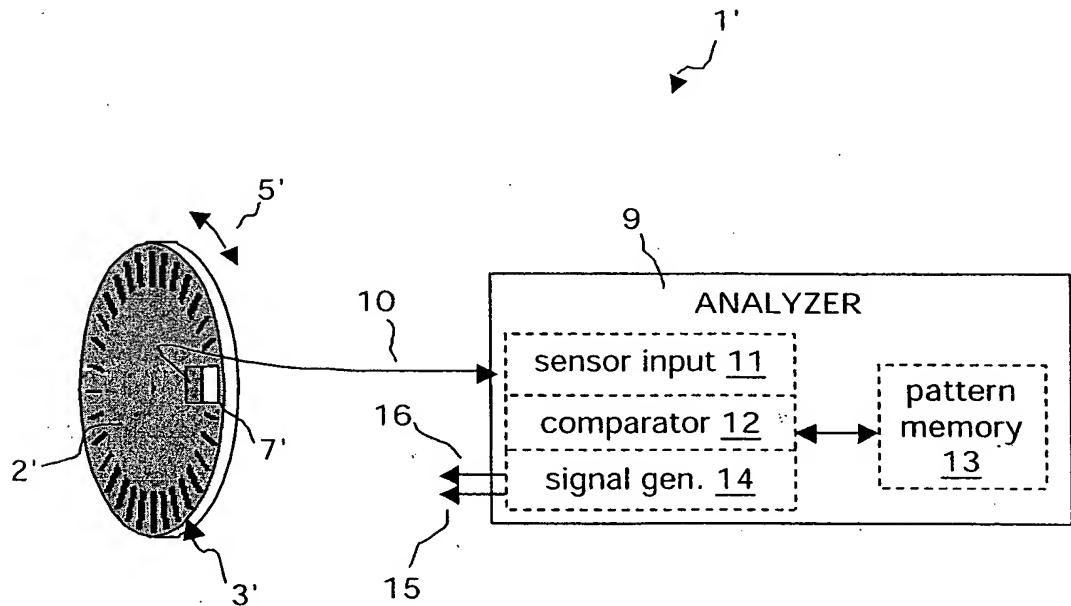


Fig. 2

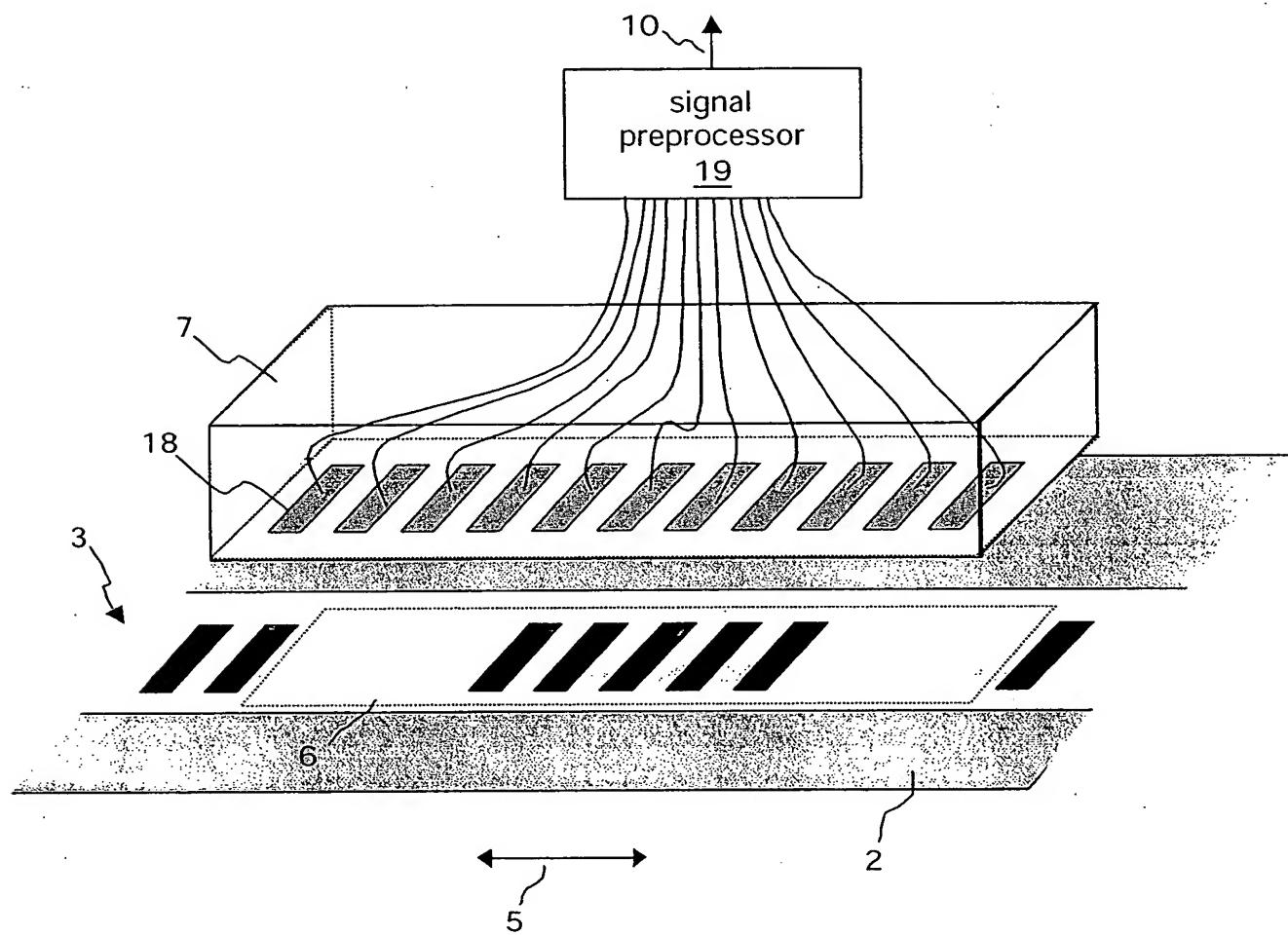


Fig. 3

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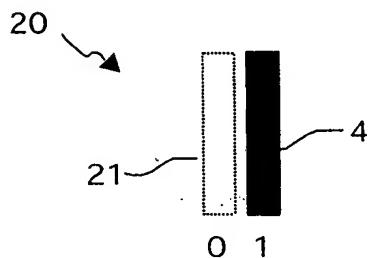


Fig. 4a

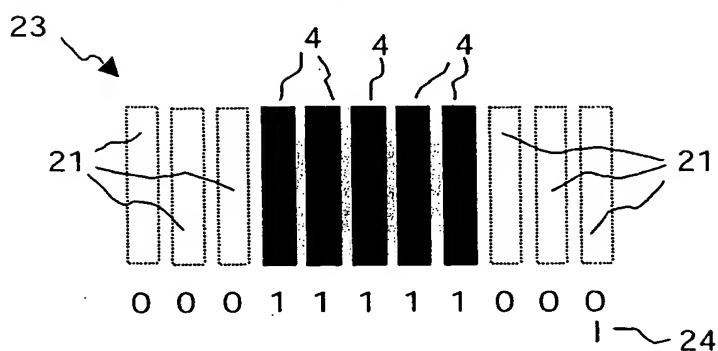


Fig. 4b

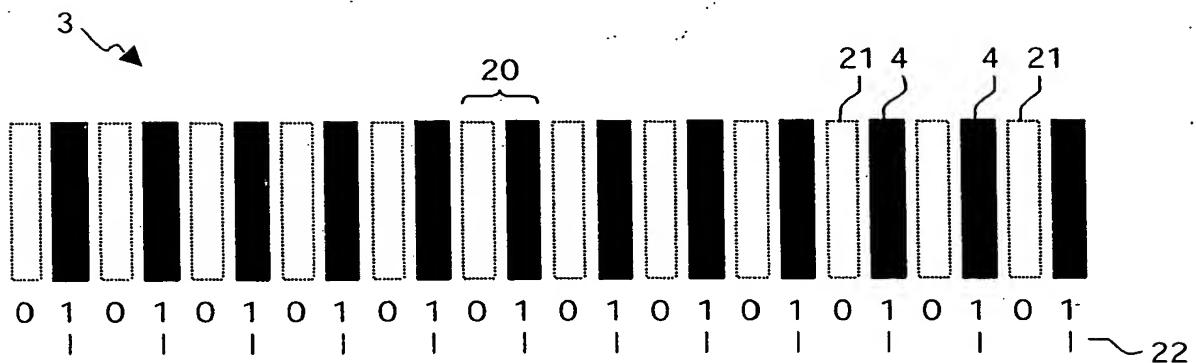


Fig. 4c

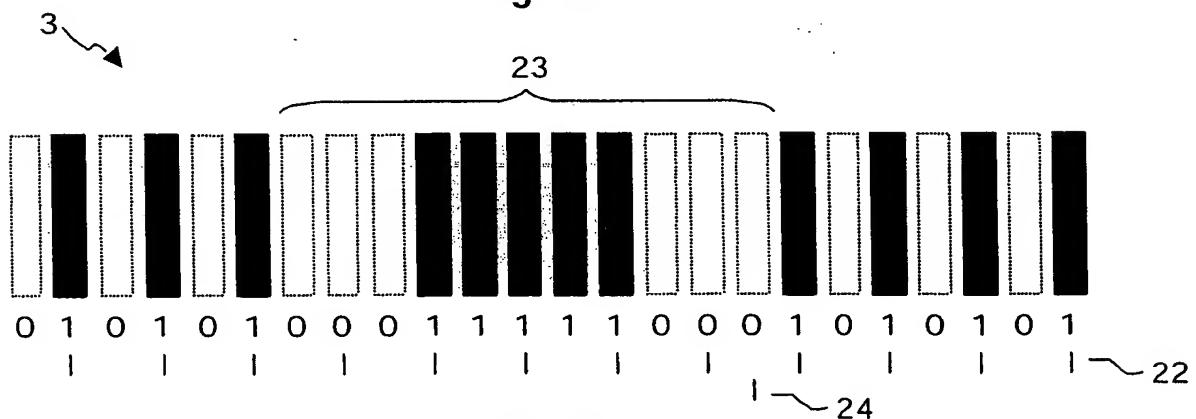


Fig. 4d

	viewed pattern	incremental signal	index signal	
P1		10101010101	1	0
P2		01010101010	0	0
P3		00101010101	1	0
P4		00010101010	0	0
P5		10001010101	1	0
P6		11000101010	0	0
P7		11100010101	1	0
P8		11110001010	0	0
P9		11111000101	1	0
P10		01111100010	0	0
P11		00111110001	1	0
P12		00011111000	0	1
P13		10001111100	1	0
P14		01000111110	0	0
P15		10100011111	1	0
P16		01010001111	0	0
P17		10101000111	1	0
P18		01010100011	0	0
P19		10101010001	1	0
P20		01010101000	0	0
P21		10101010100	1	0
P2		01010101010	0	0
P1		10101010101	1	0

Fig. 5

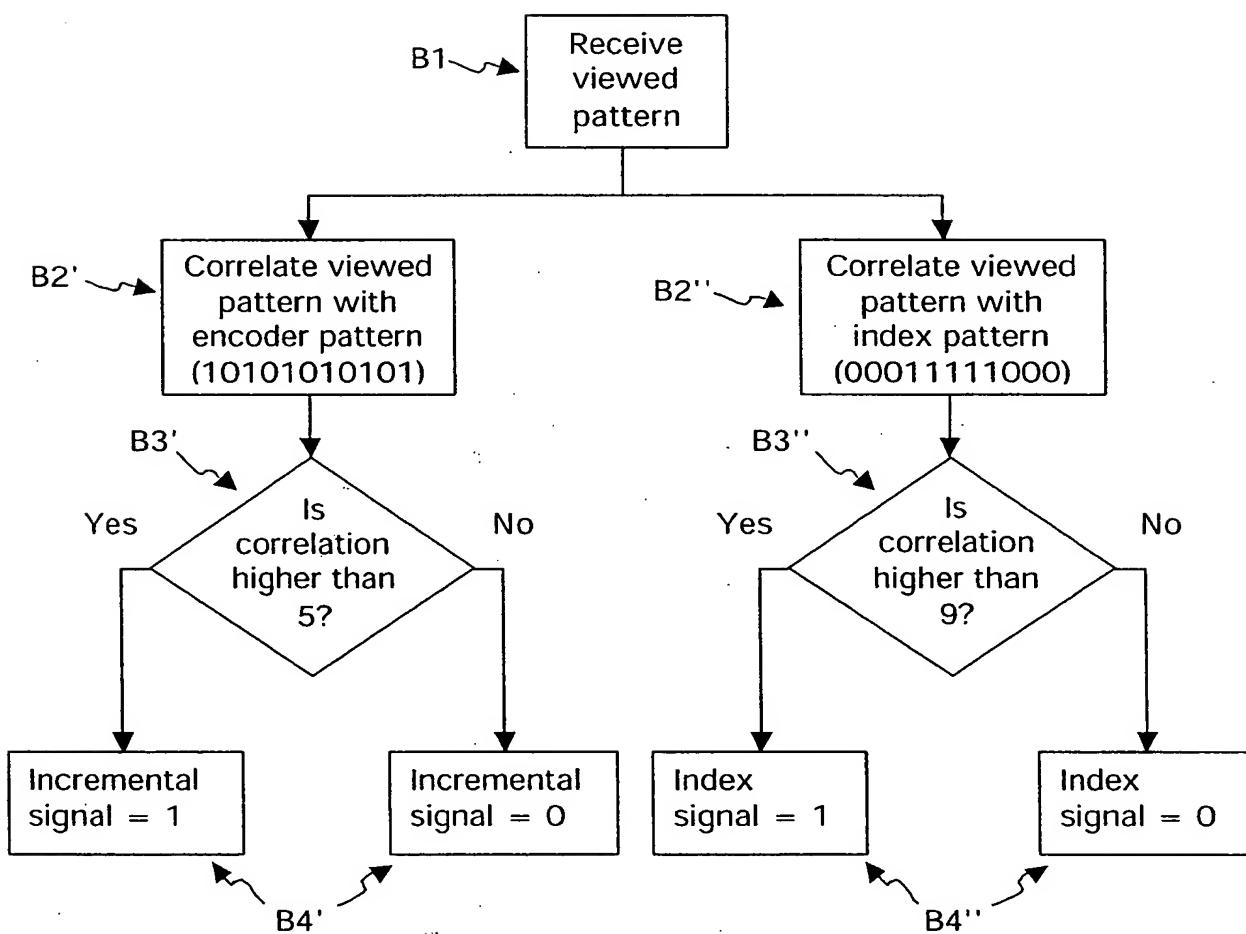


Fig. 6

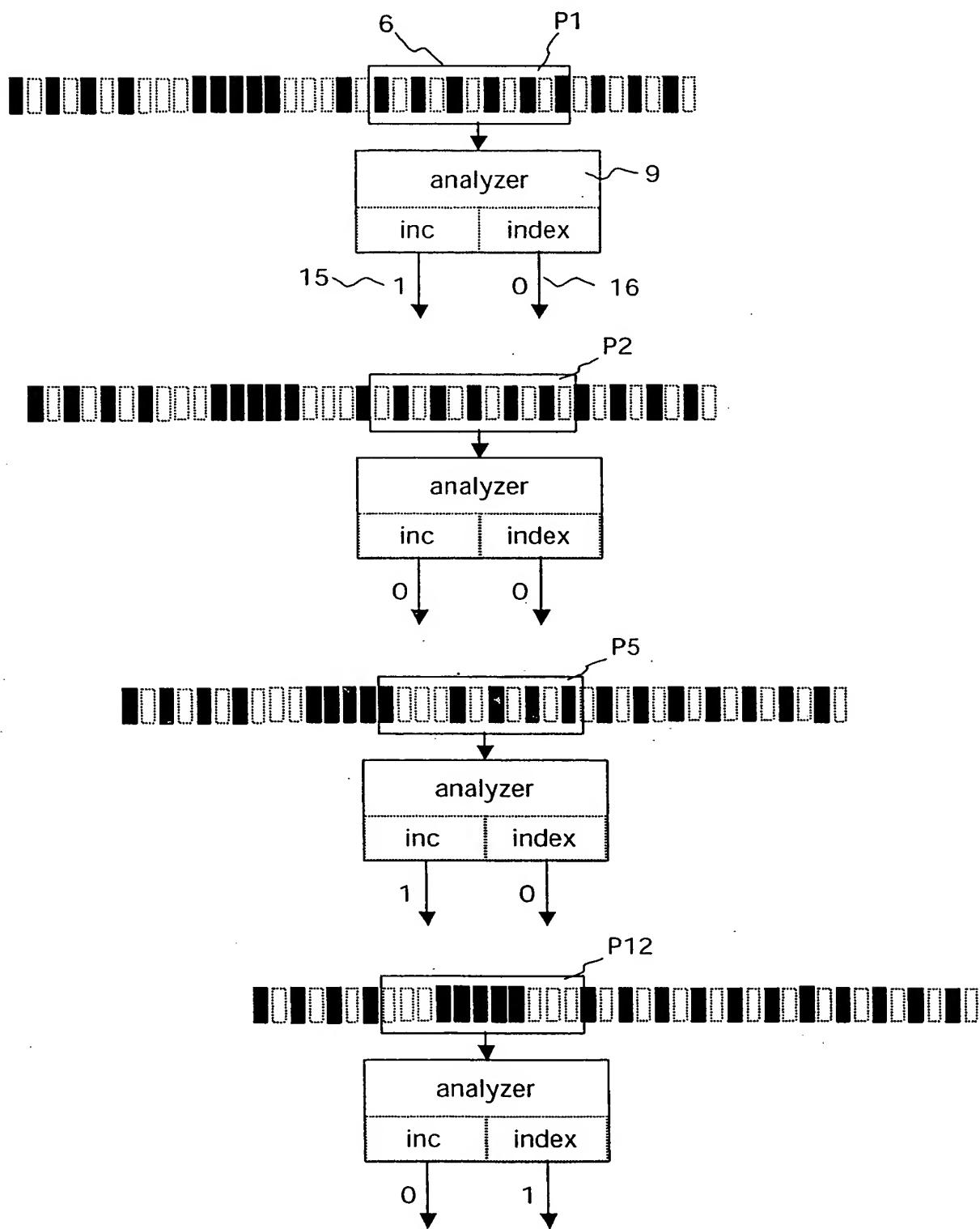
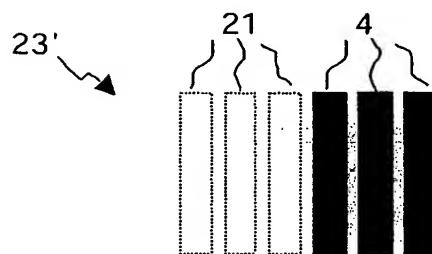
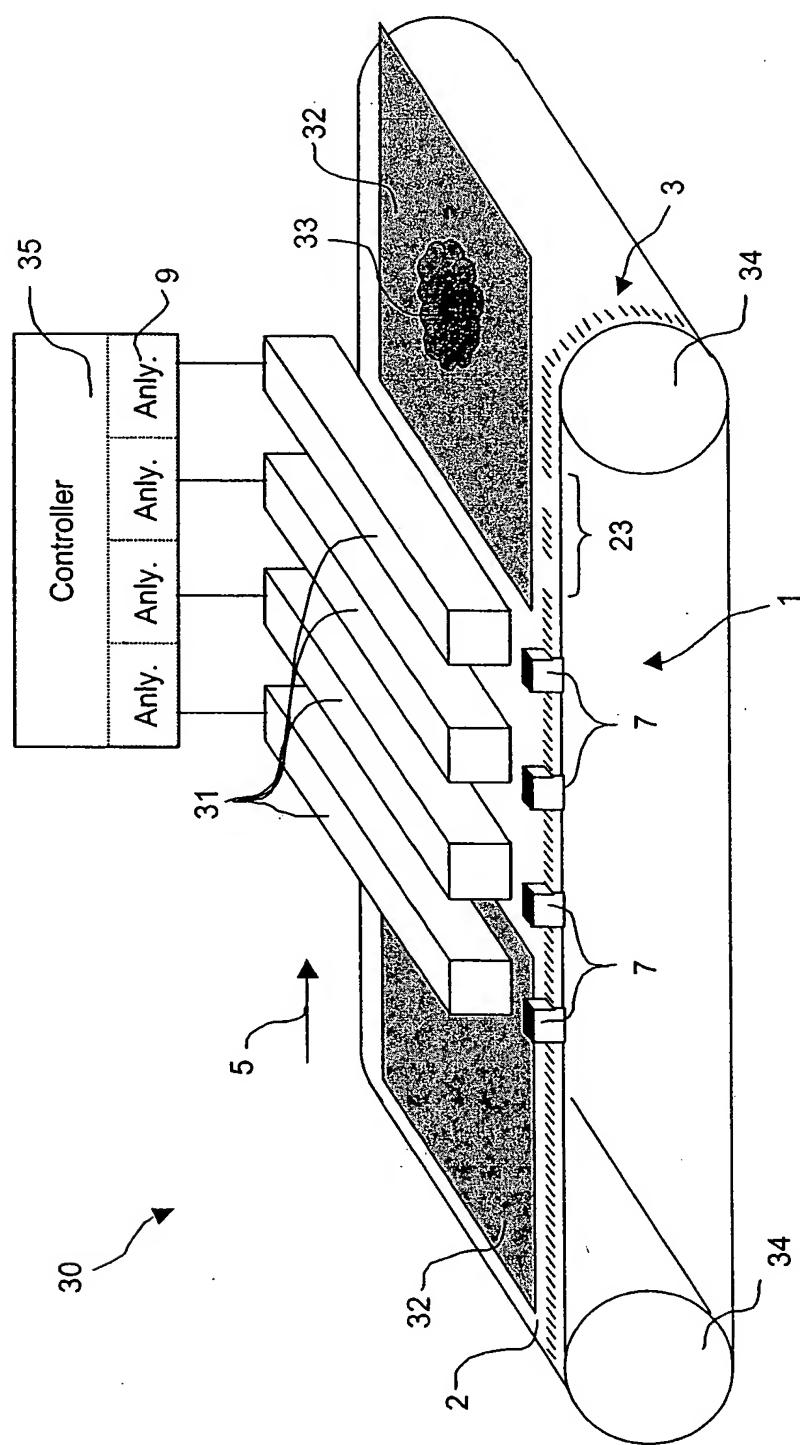


Fig. 7



	viewed pattern	incremental signal	index signal	
R1		010101	1	0
R2		101010	0	0
R3		110101	1	0
R4		111010	0	1
R5		011101	1	0
R6		001110	0	0
R7		000111	1	1
R8		100011	0	0
R9		010001	1	0
R10		101000	0	0
R11		010100	1	0
R2		101010	0	0
R1		010101	1	0

Fig. 8



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